

Application No.: 10/627430

Case No.: 57982US004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Fluoropolymer suitable for the preparation of a fluoroelastomer, said fluoropolymer comprising:
 - a. 10 to 50 mole % of repeating units derived from tetrafluoroethylene;
 - b. 15 to 40 mole % of repeating units derived from hexafluoropropylene;
 - c. 25 to 59 mole % of repeating units derived from vinylidene fluoride;
 - d. 1 to 20 mole % of repeating units derived from chlorotrifluoroethylene; and optionally
 - e. one or more repeating units derived from fluorinated monomers other than tetrafluoroethylene, hexafluoropropylene, vinylidene fluoride and chlorotrifluoroethylene.
2. (Original) Fluoropolymer according to claim 1 wherein said optional one or more repeating units are derived from a perfluorinated vinyl ether monomer.
3. (Currently Amended) Fluoropolymer according to claim 2 wherein said optional one or more repeating units are present in a total amount of up to 25 mole %.
4. (Original) Fluoropolymer according to claim 1 wherein said fluoropolymer has a bi-modal or multi-modal molecular weight distribution.
5. (Original) Fluoropolymer according to claim 1 wherein said fluoropolymer comprises one or more cure sites capable of engaging in a peroxide cure reaction.
6. (Original) Fluoropolymer according to claim 5 wherein said cure sites comprise bromine and/or iodine atoms.

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7. (Original) Curable fluoroelastomer composition comprising a fluoropolymer as defined in claim 1 and a cure composition.
8. (Original) Curable fluoroelastomer composition according to claim 7 wherein said cure composition comprises a polyhydroxy compound and an onium compound.
9. (Original) Curable fluoroelastomer composition according to claim 7 wherein said cure composition comprises an organic peroxide.
10. (Original) Curable fluoroelastomer composition according to claim 7 further comprising an organic compound comprising a hydride function MH, wherein M is selected from Si, Ge, Sn and Pb.
11. (Original) Component of a fuel management system comprising a fluoroelastomer obtained by curing the curable fluoroelastomer composition defined in claim 7.
12. (Currently Amended) Method of making a fluoropolymer as defined in claim 1, comprising an aqueous emulsion polymerization of tetrafluoroethylene, hexafluoropropylene, vinylidene fluoride, chlorotrifluoroethylene and optional further fluorinated monomers in an amount[[s]] appropriate so as to obtain a fluoropolymer having the composition as defined in claim 1.
13. (Original) Method according to claim 12 wherein said method is carried out without addition of a fluorinated surfactant.
14. (Original) Method according to claim 12 wherein an aerosol of liquid fluorinated monomer or a liquid fluorinated hydrocarbon is provided and fed with steam heating into a reaction vessel in which said aqueous emulsion polymerization is carried out.

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15. (New) Fluoroelastomer prepared from a fluoropolymer, the fluoropolymer comprising:
- 10 to 50 mole % of repeating units derived from tetrafluoroethylene;
 - 15 to 40 mole % of repeating units derived from hexafluoropropylene;
 - 25 to 59 mole % of repeating units derived from vinylidene fluoride;
 - 1 to 20 mole % of repeating units derived from chlorotrifluoroethylene;
- wherein the fluoroelastomer has a lower flexural modulus than corresponding terpolymers of repeating units derived from tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride that do not contain chlorotrifluoroethylene.